PATENT COOPERATION TREATY

Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		FOR FURTHER ACTIO	N	See Form PCT/IPEA/416				
20803WO		Y 150 - 1	(manth 6 agri)	Priority date (day/month/year)				
International application No.								
PCT/DE2	2004/001243	18.06.2004		20.06.2003				
International Patent Classification (IPC) or national classification and IPC								
Applicant PEIN, Andreas								
1. This runder	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 							
2. This R	EPORT consists of a total of	4	_ sheets, including	g this cover sheet.				
3. This re	eport is also accompanied by A	NNEXES, comprising:						
a. D	(sent to the applicant and	to the International Bureau) :	a total of	sheets, as follows:				
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
:	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
ъ. [_	Bureau only) a total of (indica	ate type and numbe	er of electronic carrier(s))				
	_			, containing a sequence listing and/or tables				
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4. This r	eport contains indications relat	ing to the following items:						
	Box No. I Basis of the	e report						
	Box No. II Priority							
	Box No. III Non-establ	ishment of opinion with regard	d to novelty, invent	tive step and industrial applicability				
		ity of invention						
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement							
	Box No. VI Certain documents cited							
	Box No. VII Certain defects in the international application							
	Box No. VIII Certain observations on the international application							
Date of submission of the demand			of completion of th	uis report				
Name and mailing address of the IPEA/EP		Autho	orized officer					
Facsimile No		Telen	hone No.					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/DE2004/001243

Box	No. I	Basis of the report		
1.		to the language, this report is based on the internation der this item.	nal application in the language in v	which it was filed, unless otherwise
	which	eport is based on translations from the original langua, is the language of a translation furnished for the purp international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4)	oses of:	
		international preliminary examination (Rule 55.2 and/		
2.	With regard receiving O this report):	I to the elements of the international application, this office in response to an invitation under Article 14 ar	report is based on (replacement s	heets which have been furnished to the riginally filed" and are not annexed to
				as originally filed/furnished
	pages pages		received by this Authority on	22.04.2005 with letter of 14.04.2005
	pages	*	received by this Authority on	
	the cl	aims:		
	nos.			as originally filed/furnished
	nos.*		as amended (togethe	r with any statement) under Article 19
	nos.*	1-5		22.04.2005 with eltter
	nos.*			
	\square	rawings:	-	
	sheet	. 10. 0.10		as originally filed/furnished
	sheet			
	sheet	s*	received by this Authority on	
	a sea	uence listing and/or any related table(s) - see Supplen		isting.
١,		amendments have resulted in the cancellation of:	-	
3.	ıne :			
		the claims, nos.		
		the sequence listing (specify):		
١.		any table(s) related to sequence listing (specify): report has been established as if (some of) the amend	dments anneved to this report and	Listed below had not been made since
4.	This they	report has been established as it (some of) the amend have been considered to go beyond the disclosure as f	iled, as indicated in the Supplemen	ntal Box (Rule 70.2(c)).
	ᆜ	the description, pages		
		the claims, nos.		,
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
	If item 4 as	oplies, some or all of those sheets may be marked "sup	perseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/DE2004/001243

Box	No. V Reasoned statem citations and exp	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement					
	Novelty (N)	Claims	1-5	YES		
		Claims		NO		
=	Inventive step (IS)	Claims	1-5	YES		
		Claims		NO		
	Industrial applicability (IA)	Claims	1-5	YES		
		Claims		NO		

2. Citations and explanations (Rule 70.7)

This report makes reference to the following documents:

- D1: US-A-5 370 609 (DRASLER WILLIAM J ET AL), 6
 December 1994 (1994-12-06)
- D2: US 2001/043874 A1 (INOUE HIROSHI ET AL), 22 November 2001 (2001-11-22)

Document D1, which is considered to represent the closest prior art, discloses (cf. figures 1-2b; and column 4, line 49 - column 5, line 39) a water jet system from which the subject matter of claim 1 differs in that the piston-cylinder unit (2) is designed with the suction tube (4), the pressure tube (7) and the operation handpiece (3) as an application-specific set, the suction and pressure chamber (24) of the piston-cylinder unit (2) is sealed from the outside by a membrane (26) and the cylinder housing (16) and the piston (17) form next to the suction and pressure chamber (24) an annular parking position space (25) into which the sealing element of the piston (17) penetrates in the extended end position of the piston (17) and in which the membrane (26) is given sufficient freedom of movement.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/DE2004/001243

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

The present invention can therefore be considered to address the problem of using an alternative sealing method within the piston-cylinder unit. The solution to this problem, as proposed in claim 1 of the present application, involves an inventive step (PCT Article 33(3)) for the following reasons:

None of the search report citations mentions the same feature for the same purpose. The only pump with similar features is a petrol pump for engines (D3) which would not be adapted for medical purposes.

Claims 2-5 are dependent on claim 1 and thus also meet the PCT novelty and inventive step requirements.